

3. (Amended) The method of claim 1, wherein creating the estimated
quantization table comprises creating the estimated quantization table based on at least one
maximum likelihood estimation.

6. (Amended) The method of claim 1, wherein the decompressed data
comprises image data blocks, and creating the estimated quantization table comprises:
determining, for each block, if that block has at least one of truncated image
data values or uniform image data values; and
excluding any block having at least one of truncated image data values or
uniform image data values.

7. (Amended) The method of claim 1, wherein creating the estimated
quantization table further comprises generating transformed image data from the
decompressed image data using a discrete cosine transform.

8. (Amended) The method of claim 7, wherein creating the estimated
quantization table further comprises generating a histogram from the transformed image data.

9. (Amended) The method of claim 8, wherein creating the quantization table
comprises:

identifying a level of a main lobe of the histogram having a highest peak and
two adjacent levels of the histogram adjacent to the identified level; and

creating the quantization table based only on the identified and adjacent levels
of the histogram.

10. (Amended) The method of claim 8, wherein creating the estimated
quantization table further comprises rounding each DCT coefficient of the transformed image
data.

11. (Amended) A system for processing decompressed image data, comprising:
a receiver that receives decompressed image data;

a quantization table estimator that creates an estimated quantization table from the received decompressed image data; and

A2 a processor that processes the decompressed image data based on the created estimated quantization table to form processed electronic image data.

12. (Amended) The system of claim 11, wherein the processor further processes the decompressed image data without using the created quantization table.

13. (Amended) The system of claim 11, wherein the quantization table estimator creates the estimated quantization table based on at least one maximum likelihood estimation.

19. (Amended) The system of claim 18, wherein:

A3 the quantization table estimator further comprises a peak identifier that identifies a level of a main lobe of the histogram having a highest peak and two adjacent levels of the histogram adjacent to the identified level; and

the quantization table estimator creates the quantization table based only on the identified and adjacent levels of the histogram.

Please add claims 21 and 22 as follows:

A4 --21. The method of claim 1, wherein creating an estimated quantization table from the received decompressed image comprises creating an estimated quantization table from the received decompressed image without having an original quantization table that was used to compress the received decompressed image.--

--22. The system of claim 11, wherein the quantization table estimator creates an estimated quantization table from the received decompressed image without having an original quantization table that was used to compress the received decompressed image.--